

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number
WO 2005/070189 A1

(51) International Patent Classification?: **A01B 45/04**

(21) International Application Number:
PCT/GB2005/000187

(22) International Filing Date: 20 January 2005 (20.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0401209.2 20 January 2004 (20.01.2004) GB

(71) Applicant and

(72) Inventor: WARKE, William, Lyle [GB/GB]; 30 Ballybrakes Road, Ballymoney, County Antrim BT53 6GL (GB).

(74) Agent: ANSONS; 240 Upper Newtownards Road, Belfast, BT4 3EU (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

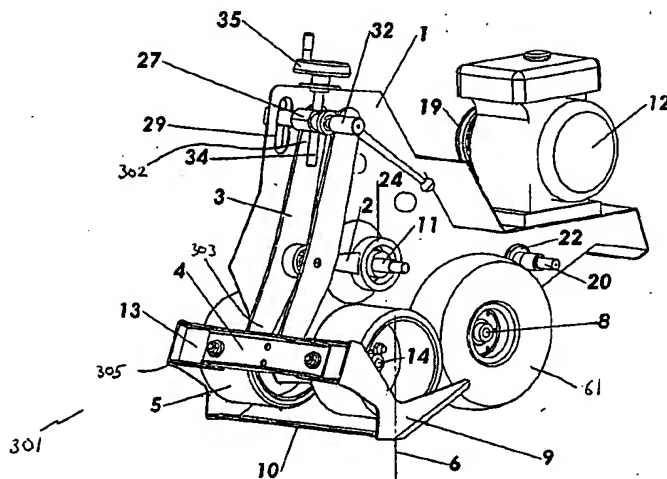
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A TURF CUTTER/DE-COMPACTOR/TRENCHER



(57) Abstract: An apparatus (301, 314, 351) for cutting turf, for soil de-compacting and for soil drainage and irrigation. The apparatus (301, 314, 351) has a chassis (1) with a ground engaging means (5, 61), an adjustable working arm (3) having a chassis-engaging end (302) movably mounted on the chassis (1) and a tool-engaging end (303) having means for receiving a tool. The apparatus also has means for oscillating the tool-engaging end (303) of the adjustable working arm (3). The oscillating means comprises a drive means mounted on the chassis (1) and a connecting means mounted intermediate the drive means and the adjustable working arm (3).

WO 2005/070189 A1